

Apologia Young Explorer: Botany 2nd Edition

**Please note that some MP3-capable CD players have trouble reading all tracks on this CD. If your brand has issues, we recommend playing the last couple of Lessons on a computer or burning the MP3's to a new CD.

| MP3 Audio CD | Textbook Section | MP3 Audio CD | Audiobook |
|--------------|--|--------------|------------|
| Track | Lesson 0 | Filename | Start Time |
| 1 | Introduction | 00001.mp3 | 0:00:00 |
| Track | Lesson 1 | Filename | Start Time |
| 2 | Why Botany Matters? | 01001.mp3 | 0:00:00 |
| 3 | Welcome | 01002.mp3 | 0:00:40 |
| 4 | Creative Creator | 01003.mp3 | 0:04:22 |
| 5 | Nature Journaling (1/2) | 01004.mp3 | 0:07:56 |
| 6 | Activity 1.1 | 01005.mp3 | 0:09:18 |
| 7 | Nature Journaling (2/2) | 01006.mp3 | 0:09:28 |
| 8 | Activity 1.2 | 01007.mp3 | 0:10:58 |
| 9 | Using Your Nature Journal Like a Scientist | 01008.mp3 | 0:11:08 |
| 10 | Activity 1.3 | 01009.mp3 | 0:14:29 |
| 11 | Science of Botany (1/2) | 01010.mp3 | 0:14:39 |
| 12 | Activity 1.4 | 01011.mp3 | 0:23:32 |
| 13 | Science of Botany (2/2) | 01012.mp3 | 0:23:42 |
| 14 | Activities 1.5a, 1.5b, and 1.6 | 01013.mp3 | 0:24:49 |
| 15 | To Seed or Not to Seed | 01014.mp3 | 0:24:59 |
| 16 | Seedless Plants | 01015.mp3 | 0:26:19 |
| 17 | What Do You Remember? | 01016.mp3 | 0:27:25 |
| 18 | Activities 1.7, 1.8, and 1.9 | 01017.mp3 | 0:28:07 |
| Track | Lesson 2 | Filename | Start Time |
| 19 | Seeds | 02001.mp3 | 0:00:00 |
| 20 | Sleeping Seeds | 02002.mp3 | 0:00:38 |
| 21 | Testae | 02003.mp3 | 0:05:26 |
| 22 | Activities 2.1 and 2.2 | 02004.mp3 | 0:08:36 |
| 23 | Anatomy of a Seed | 02005.mp3 | 0:08:46 |
| 24 | Activity 2.3 | 02006.mp3 | 0:16:10 |
| 25 | Germination | 02007.mp3 | 0:16:20 |
| 26 | What Do You Remember | 02008.mp3 | 0:19:28 |
| 27 | Activities 2.4 and 2.5 | 02009.mp3 | 0:20:42 |
| Track | Lesson 3 | Filename | Start Time |
| 28 | Angiosperms | 03001.mp3 | 0:00:00 |
| 29 | Flowering Plants | 03002.mp3 | 0:01:04 |
| 30 | Activities 3.1, 3.2, and 3.3 | 03003.mp3 | 0:08:04 |
| 31 | Flower Families (1/2) | 03004.mp3 | 0:08:16 |
| 32 | Activity 3.4 | 03005.mp3 | 0:12:02 |

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|----|------------------------|-----------|---------|
| 33 | Flower Families (2/2) | 03006.mp3 | 0:12:12 |
| 34 | Think About This | 03007.mp3 | 0:15:22 |
| 35 | Activity 3.5 | 03008.mp3 | 0:20:04 |
| 36 | Flesh Eating Flowers | 03009.mp3 | 0:20:14 |
| 37 | What Do You Remember? | 03010.mp3 | 0:30:04 |
| 38 | Activities 3.6 and 3.7 | 03011.mp3 | 0:31:02 |

| Track | Lesson 4 | Filename | Start Time |
|-------|---------------------------------------|-----------|------------|
| 39 | Pollination | 04001.mp3 | 0:00:00 |
| 40 | Pollination | 04002.mp3 | 0:00:46 |
| 41 | Think About This | 04003.mp3 | 0:03:44 |
| 42 | Bees | 04004.mp3 | 0:05:20 |
| 43 | Other Insects | 04005.mp3 | 0:15:58 |
| 44 | Activity 4.1 | 04006.mp3 | 0:17:04 |
| 45 | Bird Pollinators | 04007.mp3 | 0:17:14 |
| 46 | Activity 4.2 | 04008.mp3 | 0:19:24 |
| 47 | Mammal Pollinators | 04009.mp3 | 0:19:35 |
| 48 | Activity 4.3 | 04010.mp3 | 0:21:17 |
| 49 | Wind Pollination | 04011.mp3 | 0:21:27 |
| 50 | Why Most Flowers Don't Self-Pollinate | 04012.mp3 | 0:23:57 |
| 51 | Self-Pollination | 04013.mp3 | 0:26:33 |
| 52 | The Pollinated Flower | 04014.mp3 | 0:28:11 |
| 53 | What Do You Remember? | 04015.mp3 | 0:29:31 |
| 54 | Activities 4.4, 4.5, and 4.6 | 04016.mp3 | 0:30:11 |

| Track | Lesson 5 | Filename | Start Time |
|-------|-------------------------|-----------|------------|
| 55 | Fruits | 05001.mp3 | 0:00:00 |
| 56 | A Flower's Fruit | 05002.mp3 | 0:01:04 |
| 57 | Fruits and Veggies | 05003.mp3 | 0:02:28 |
| 58 | Fruit Kinds (1/2) | 05004.mp3 | 0:04:20 |
| 59 | Activity 5.1 | 05005.mp3 | 0:05:58 |
| 60 | Fruit Kinds (2/2) | 05006.mp3 | 0:06:08 |
| 61 | Activities 5.2, and 5.3 | 05007.mp3 | 0:08:02 |
| 62 | Think About This | 05008.mp3 | 0:08:12 |
| 63 | Dry Fruits | 05009.mp3 | 0:09:34 |
| 64 | Activity 5.4 | 05010.mp3 | 0:12:46 |
| 65 | Seed Scattering (1/2) | 05011.mp3 | 0:12:56 |
| 66 | Activity 5.5 | 05012.mp3 | 0:31:12 |
| 67 | Seed Scattering (2/2) | 05013.mp3 | 0:31:22 |
| 68 | What Do You Remember? | 05014.mp3 | 0:40:16 |
| 69 | Activities 5.6 and 5.7 | 05015.mp3 | 0:40:52 |

| Track | Lesson 6 | Filename | Start Time |
|-------|----------------|-----------|------------|
| 70 | Leaves | 06001.mp3 | 0:00:00 |
| 71 | Leaf Mouths | 06002.mp3 | 0:01:14 |
| 72 | Making Food | 06003.mp3 | 0:08:20 |
| 73 | Photosynthesis | 06004.mp3 | 0:11:10 |

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|----|-----------------------------------|-----------|---------|
| 74 | Sunshine Energy | 06005.mp3 | 0:11:56 |
| 75 | Activity 6.1 | 06006.mp3 | 0:13:11 |
| 76 | Color-Fill (1/2) | 06007.mp3 | 0:13:21 |
| 77 | Activity 6.2 | 06008.mp3 | 0:14:32 |
| 78 | Color-Fill (2/2) | 06009.mp3 | 0:14:42 |
| 79 | Activity 6.3 | 06010.mp3 | 0:16:56 |
| 80 | Transpiration | 06011.mp3 | 0:17:06 |
| 81 | Activity 6.4 | 06012.mp3 | 0:19:06 |
| 82 | Falling Leaves | 06013.mp3 | 0:19:20 |
| 83 | Activity 6.5 | 06014.mp3 | 0:22:38 |
| 84 | Anatomy of a Leaf | 06015.mp3 | 0:22:48 |
| 85 | Simple Leaves and Compound Leaves | 06016.mp3 | 0:24:08 |
| 86 | Leaf Arrangement | 06017.mp3 | 0:25:23 |
| 87 | Leaf Venation | 06018.mp3 | 0:26:03 |
| 88 | Leaf Shapes | 06019.mp3 | 0:27:13 |
| 89 | Leaf Margins | 06020.mp3 | 0:31:25 |
| 90 | What Do You Remember | 06021.mp3 | 0:32:55 |
| 91 | Activities 6.6, 6.7, and 6.8 | 06022.mp3 | 0:33:55 |

| Track | Lesson 7 | Filename | Start Time |
|-------|------------------------------|-----------|------------|
| 92 | Roots | 07001.mp3 | 0:00:00 |
| 93 | Good Soil | 07002.mp3 | 0:02:12 |
| 94 | Nutritious Soil | 07003.mp3 | 0:04:08 |
| 95 | Activity 7.1 | 07004.mp3 | 0:08:20 |
| 96 | Root Hairs | 07005.mp3 | 0:08:30 |
| 97 | Root Growth | 07006.mp3 | 0:10:14 |
| 98 | Preventing Erosion | 07007.mp3 | 0:13:38 |
| 99 | Floating Roots | 07008.mp3 | 0:14:48 |
| 100 | Geotropism | 07009.mp3 | 0:16:52 |
| 101 | Activity 7.2 | 07010.mp3 | 0:18:22 |
| 102 | Root Systems | 07011.mp3 | 0:18:32 |
| 103 | Geophytes | 07012.mp3 | 0:19:52 |
| 104 | Rooting | 07013.mp3 | 0:22:58 |
| 105 | What Do You Remember? | 07014.mp3 | 0:26:22 |
| 106 | Activities 7.3, 7.4, and 7.5 | 07015.mp3 | 0:27:02 |

| Track | Lesson 8 | Filename | Start Time |
|-------|----------------------------|-----------|------------|
| 107 | Stems | 08001.mp3 | 0:00:00 |
| 108 | Plant Structure | 08002.mp3 | 0:00:54 |
| 109 | Activity 8.1 | 08003.mp3 | 0:04:44 |
| 110 | Woody and Herbaceous Stems | 08004.mp3 | 0:04:54 |
| 111 | Activity 8.2 | 08005.mp3 | 0:10:04 |
| 112 | Succulent Plants | 08006.mp3 | 0:10:14 |
| 113 | Auxins | 08007.mp3 | 0:10:48 |
| 114 | Activity 8.3 | 08008.mp3 | 0:13:20 |
| 115 | Examples of Phototropism | 08009.mp3 | 0:13:30 |
| 116 | What Do You Remember? | 08010.mp3 | 0:15:12 |

117 Activities 8.4 and 8.5 08011.mp3 0:15:50

| Track | Lesson 9 | Filename | Start Time |
|-------|----------------------------|-----------|------------|
| 118 | Gardening | 09001.mp3 | 0:00:00 |
| 119 | Your Edible Garden | 09002.mp3 | 0:00:48 |
| 120 | Gardening Power | 09003.mp3 | 0:02:28 |
| 121 | Better Foods | 09004.mp3 | 0:04:02 |
| 122 | Activities 9.1 and 9.2 | 09005.mp3 | 0:06:50 |
| 123 | Tools for Gardening | 09006.mp3 | 0:07:00 |
| 124 | Raised Bed Garden | 09007.mp3 | 0:08:54 |
| 125 | Location | 09008.mp3 | 0:09:42 |
| 126 | Building Your Bed | 09009.mp3 | 0:10:06 |
| 127 | Width and Length of Garden | 09010.mp3 | 0:11:00 |
| 128 | Activity 9.3 | 09011.mp3 | 0:11:40 |
| 129 | Soil | 09012.mp3 | 0:11:50 |
| 130 | Mixing Your Soil | 09013.mp3 | 0:14:44 |
| 131 | When to Plant | 09014.mp3 | 0:15:58 |
| 132 | USDA Hardiness Map | 09015.mp3 | 0:17:08 |
| 133 | Growing Seasons by Zone | 09016.mp3 | 0:17:57 |
| 134 | What to Plant When | 09017.mp3 | 0:18:39 |
| 135 | Activity 9.4 | 09018.mp3 | 0:19:19 |
| 136 | Planting Seedlings | 09019.mp3 | 0:19:29 |
| 137 | Spacing Plants | 09020.mp3 | 0:20:11 |
| 138 | Tall to Small | 09021.mp3 | 0:21:53 |
| 139 | Activity 9.5 | 09022.mp3 | 0:22:45 |
| 140 | Watering Your Garden | 09023.mp3 | 0:22:55 |
| 141 | Activity 9.6 | 09024.mp3 | 0:24:27 |
| 142 | Maintaining Your Garden | 09025.mp3 | 0:24:37 |
| 143 | Fall and Winter Ideas | 09026.mp3 | 0:34:29 |
| 144 | What Do You Remember | 09027.mp3 | 0:35:37 |
| 145 | Activity 9.7 | 09028.mp3 | 0:36:21 |

| Track | Lesson 10 | Filename | Start Time |
|-------|--------------------------|-----------|------------|
| 146 | Trees | 10001.mp3 | 0:00:00 |
| 147 | Trees are Special | 10002.mp3 | 0:01:24 |
| 148 | Trees are Important | 10003.mp3 | 0:03:26 |
| 149 | Activity 10.1 | 10004.mp3 | 0:05:02 |
| 150 | Animal Shelter | 10005.mp3 | 0:05:12 |
| 151 | More Tree Facts | 10006.mp3 | 0:09:02 |
| 152 | Activity 10.2 | 10007.mp3 | 0:09:50 |
| 153 | Seed Making | 10008.mp3 | 0:10:00 |
| 154 | Tree Growth | 10009.mp3 | 0:12:58 |
| 155 | Twig Anatomy | 10010.mp3 | 0:15:42 |
| 156 | Activities 10.3 and 10.4 | 10011.mp3 | 0:17:21 |
| 157 | Growing Outward | 10012.mp3 | 0:17:31 |
| 158 | Tree Trunks | 10013.mp3 | 0:19:23 |
| 159 | Trunk Layers | 10014.mp3 | 0:20:39 |

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| 160 | Tree Bark Patterns | 10015.mp3 | 0:22:01 |
| 161 | Activity 10.5 | 10016.mp3 | 0:23:03 |
| 162 | Thirsty Trees | 10017.mp3 | 0:23:13 |
| 163 | What Do You Remember? | 10018.mp3 | 0:24:47 |
| 164 | Activities 10.6 and 10.7 | 10019.mp3 | 0:25:25 |

| Track | Lesson 11 | Filename | Start Time |
|-------|--------------------------|-----------|------------|
| 165 | Gymnosperms | 11001.mp3 | 0:00:00 |
| 166 | Uncovered Seeds | 11002.mp3 | 0:00:38 |
| 167 | Conifers (1/4) | 11003.mp3 | 0:01:46 |
| 168 | Activity 11.1 | 11004.mp3 | 0:04:20 |
| 169 | Conifers (2/4) | 11005.mp3 | 0:04:30 |
| 170 | Activity 11.2 | 11006.mp3 | 0:07:26 |
| 171 | Conifers (3/4) | 11007.mp3 | 0:07:36 |
| 172 | Activity 11.3 | 11008.mp3 | 0:08:30 |
| 173 | Conifers (4/4) | 11009.mp3 | 0:08:40 |
| 174 | Cycads | 11010.mp3 | 0:14:30 |
| 175 | Ginko Biloba | 11011.mp3 | 0:15:58 |
| 176 | Forests | 11012.mp3 | 0:17:36 |
| 177 | Forest Fires | 11013.mp3 | 0:22:54 |
| 178 | What Do You Remember | 11014.mp3 | 0:24:58 |
| 179 | Activities 11.4 and 11.5 | 11015.mp3 | 0:25:42 |

| Track | Lesson 12 | Filename | Start Time |
|-------|--------------------------|-----------|------------|
| 180 | Seedless Vascular Plants | 12001.mp3 | 0:00:00 |
| 181 | Sporangium | 12002.mp3 | 0:00:58 |
| 182 | Fern Anatomy | 12003.mp3 | 0:03:00 |
| 183 | Fern Lifecycle | 12004.mp3 | 0:06:24 |
| 184 | Pteridomania | 12005.mp3 | 0:12:46 |
| 185 | Activity 12.1 | 12006.mp3 | 0:14:46 |
| 186 | Type of Ferns | 12007.mp3 | 0:14:56 |
| 187 | What Do You Remember? | 12008.mp3 | 0:19:28 |
| 188 | Activities 12.2 and 12.3 | 12009.mp3 | 0:20:20 |

| Track | Lesson 13 | Filename | Start Time |
|-------|---------------------------------|-----------|------------|
| 189 | Nonvascular Plants | 13001.mp3 | 0:00:00 |
| 190 | Brophytes | 13002.mp3 | 0:00:56 |
| 191 | Mosses | 13003.mp3 | 0:03:54 |
| 192 | Uses for Mosses | 13004.mp3 | 0:05:08 |
| 193 | Liverworts | 13005.mp3 | 0:08:58 |
| 194 | Activity 13.1 | 13006.mp3 | 0:11:02 |
| 195 | Lichens | 13007.mp3 | 0:11:12 |
| 196 | What Do You Remember? | 13008.mp3 | 0:18:18 |
| 197 | Activities 13.2, 13.3, and 13.4 | 13009.mp3 | 0:18:56 |

| Track | Lesson 14 | Filename | Start Time |
|-------|-----------|-----------|------------|
| 198 | Mycology | 14001.mp3 | 0:00:00 |

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| 199 | Fungi | 14002.mp3 | 0:01:08 |
| 200 | Consumers | 14003.mp3 | 0:02:26 |
| 201 | Fungus Among Us | 14004.mp3 | 0:03:18 |
| 202 | Yeasts | 14005.mp3 | 0:03:46 |
| 203 | Activity 14.1 | 14006.mp3 | 0:09:46 |
| 204 | Molds | 14007.mp3 | 0:09:56 |
| 205 | Activity 14.2 | 14008.mp3 | 0:17:14 |
| 206 | Mushrooms | 14009.mp3 | 0:17:24 |
| 207 | Mushroom Lifecycle | 14010.mp3 | 0:20:36 |
| 208 | Dust in the Wind | 14011.mp3 | 0:26:53 |
| 209 | Spore Dispersal | 14012.mp3 | 0:28:31 |
| 210 | Saprotrophs | 14013.mp3 | 0:30:25 |
| 211 | Fairy Rings | 14014.mp3 | 0:31:15 |
| 212 | Parasitic Mushrooms | 14015.mp3 | 0:32:13 |
| 213 | Mycorrhizal Mushrooms | 14016.mp3 | 0:34:03 |
| 214 | What Do You Remember? | 14017.mp3 | 0:36:57 |
| 215 | Activities 14.3, 14.4, and 14.5 | 14018.mp3 | 0:38:09 |